AUTODOC CLUB

How to change engine oil and filter on **Volvo V50 MW** – replacement guide

VIDEO TUTORIAL

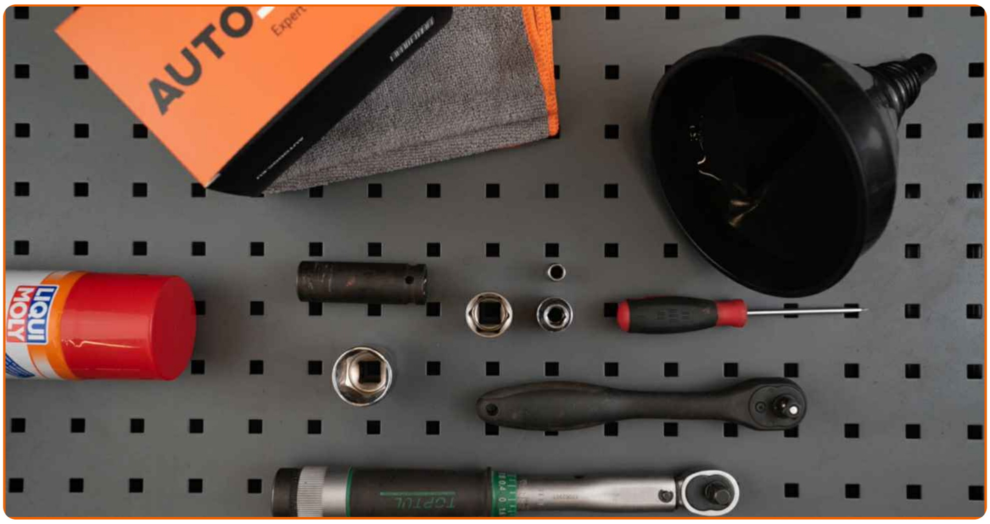


Important!

This replacement procedure can be used for:
VOLVO C30 (533) 1.6 D2, VOLVO S40 II (MS, 544) 1.6 D2, VOLVO S60 II (Y20, 134) 1.6 DRIVe / D2, VOLVO V60 I (155, 157) 1.6 DRIVe, VOLVO S80 II (AS, 124) 1.6 DRIVe, VOLVO V70 III (BW, 135) 1.6 DRIVe / D2, VOLVO S40 II (MS, 544) 1.6 D, VOLVO V50 (MW, 545) 1.6 D, VOLVO C30 (533) 1.6 D, VOLVO V70 III (BW, 135) 1.6 D, VOLVO S80 II (AS, 124) 1.6 D DRIVe, VOLVO V50 (MW, 545) 1.6 D2, VOLVO V40 Hatchback (525, 526) 1.6 D2

The steps may slightly vary depending on the car design.

REPLACEMENT: ENGINE OIL AND FILTER – VOLVO V50 MW. TOOLS YOU MIGHT NEED:



- All-purpose cleaning spray
- Drive socket # 7
- Drive socket # 10
- Drive socket # 21
- Drive socket # 27
- Ratchet wrench
- Torque wrench
- Oil drain pan
- Funnel
- Flat Screwdriver
- Microfibre towel
- Fender cover

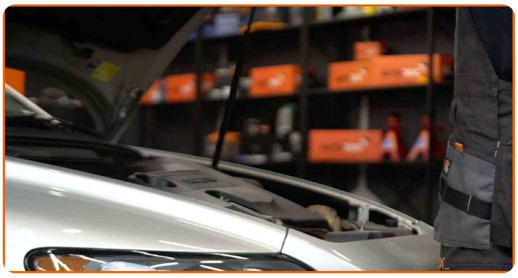
BUY TOOLS

Replacement: engine oil and filter – Volvo V50 MW. Tip from AUTODOC experts:

- Replace the oil filter every time when changing motor oil.
- Wear gloves to prevent contact with hot liquid.
- All work should be done with the engine stopped.

REPLACEMENT: ENGINE OIL AND FILTER – VOLVO V50 MW. USE THE FOLLOWING PROCEDURE:

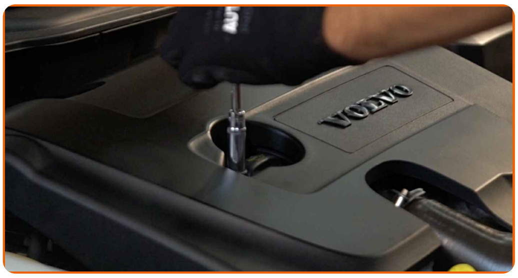
1 Open the hood.



2 Use a fender protection cover to prevent damaging paintwork and plastic parts of the car.



3 Unscrew the engine cover fastener. Use a drive socket #10.



4 Remove the engine cover.



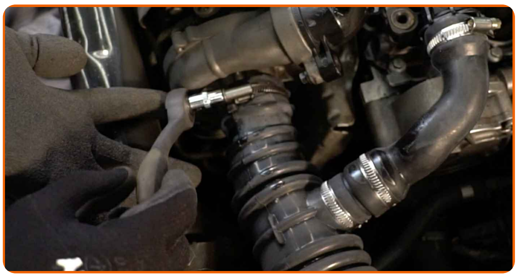
Replacement: engine oil and filter – Volvo V50 MW. AUTODOC recommends:

- Raise the engine cover, holding it on two sides simultaneously.

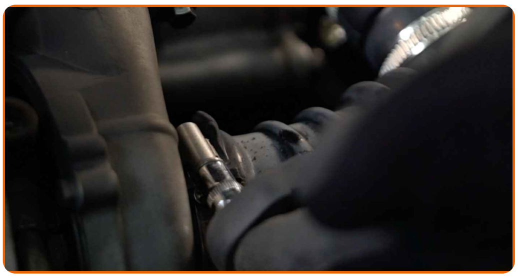
5 Unplug the mass air flow sensor connector.



6 Detach the air intake hose clamp. Use a drive socket #7. Use a ratchet wrench.



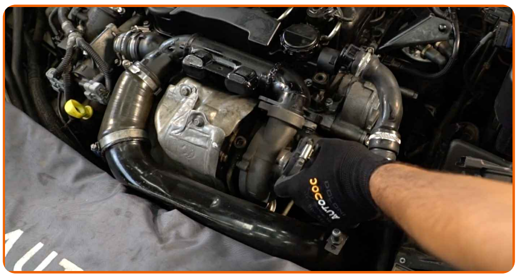
7 Detach the crankcase ventilation hose clamp.



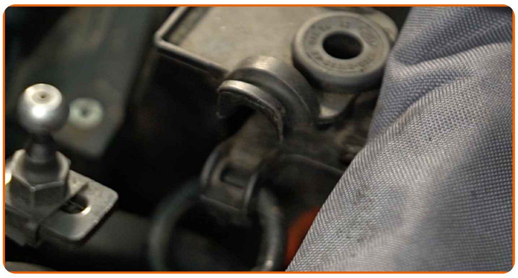
8 Remove the crankcase ventilation hose.



9 Detach the air inlet pipe from the turbocharger.



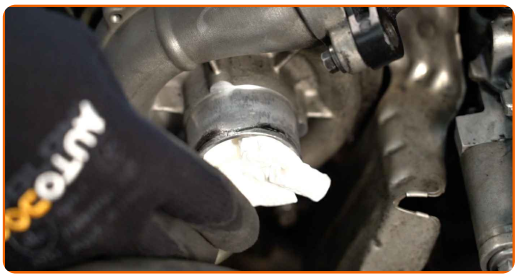
10 Remove the air filter housing retaining spring.



11 Remove the air filter housing.



12 Cover the turbocharger impeller with a microfibre cloth to prevent dirt and foreign objects getting into the system.



13 Unscrew the oil filler plug.



14 Lift the car using a jack or place it over an inspection pit.



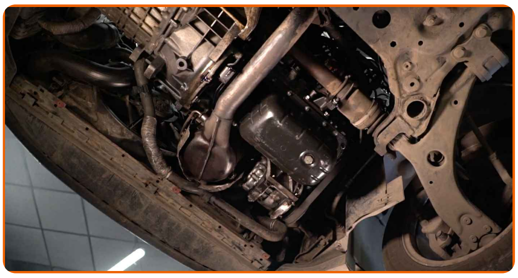
Replacement: engine oil and filter – Volvo V50 MW. AUTODOC experts recommend:

- The vehicle must be on even keel, and if it is at an angle, the drain plug must be at the lowest point.
- All work should be done with the engine stopped.

15 Undo the fasteners of the oil pan lower cover. Use a drive socket #10.



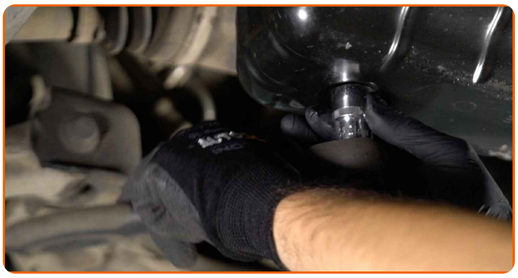
16 Remove the oil pan cover.



17 Put a waste oil container with at least 5 l capacity under the drainage hole.



18 Unscrew the drain plug. Use a drive socket #21. Use a ratchet wrench.



19 Drain the used oil.



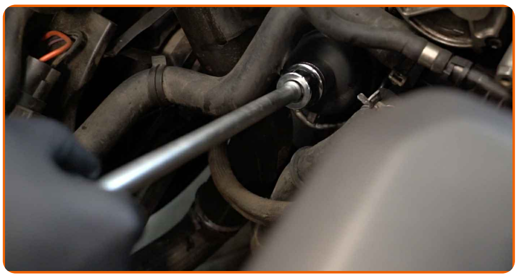
Replacement: engine oil and filter – Volvo V50 MW. Tip:

- Caution! The oil may be hot.

20 Clean the oil filter housing cap. Use all-purpose cleaning spray.



21 Unscrew the filter housing cap together with the old filter element. Use a drive socket #27. Use a ratchet wrench.



22 Put the old oil filter in the container.

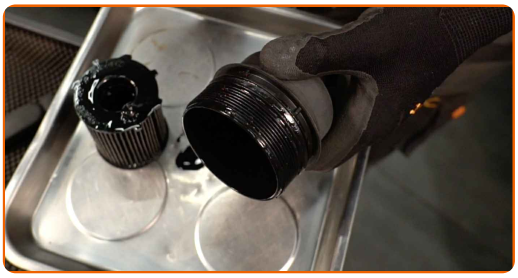


Replacement: engine oil and filter – Volvo V50 MW. Tip from AUTODOC experts:

- Move up the container. The oil starts to drain out of the drainage hole immediately after you have removed the oil filter.

23 Cover the oil filter housing with a microfibre towel to prevent dirt and foreign objects from getting into the system.

24 Detach the oil filter from the filter cover.



25 Remove the oil filter cover O-ring. Use a flat screwdriver.



26 Clean the oil filter housing cap. Use all-purpose cleaning spray.



27 Install a new O-ring to its mounting seat on the filter cover.

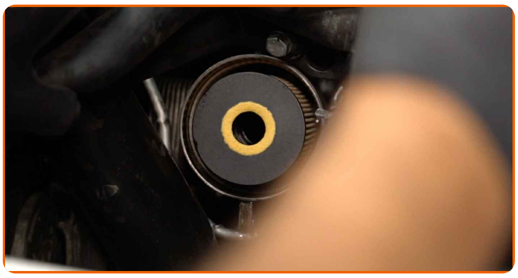


28 Lubricate the rubber seal of the new filter with a little amount of fresh oil.



29 Remove the microfibre towel from the oil filter housing.

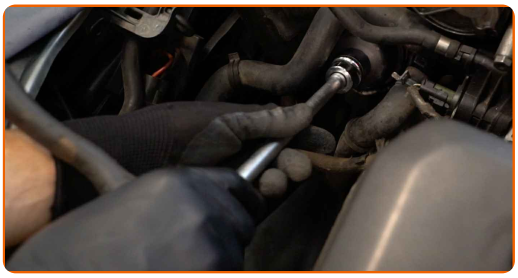
30 Install the new oil filter to the mounting seat on the filter cover.



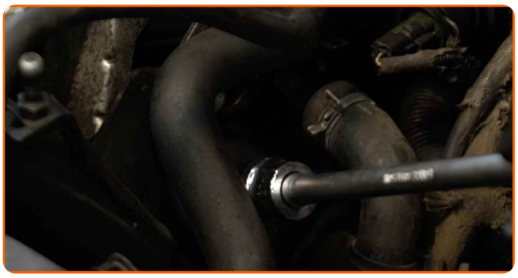
Please note!

- Make sure to install the filter correctly. Don't mix up the sides of the part.

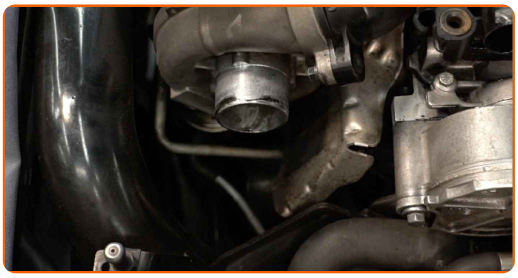
31 Screw the new filter into its place.



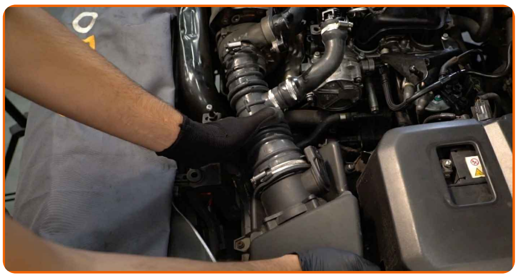
32 Screw the cap. Use a drive socket #27. Use a torque wrench. Tighten it to 25 Nm torque.



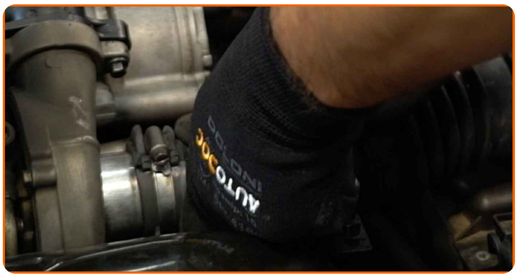
33 Remove the microfibre cloth from the turbocharger impeller.



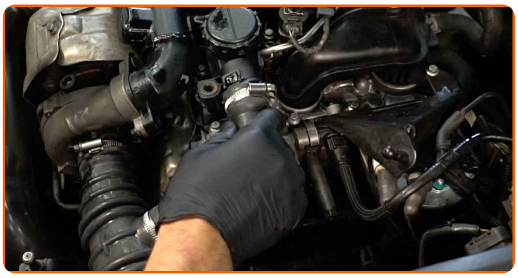
34 Install the air filter housing and fasten it.



35 Attach the air inlet pipe to the turbocharger.



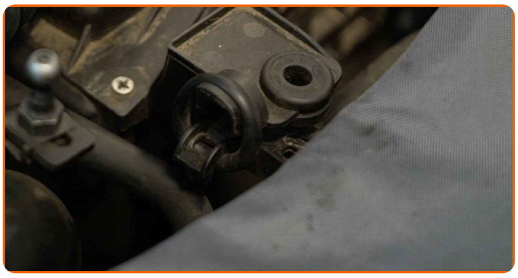
36 Install the PCV pipe.



37 Install the clamp of the crankcase ventilation hose.

38

Install the air filter housing retaining spring.



39

Fasten the clamp on the air intake hose. Use a drive socket #7. Use a ratchet wrench.



40

Plug in the mass air flow sensor conntector.



Please note!

- Wait until the oil has completely drained from the drainage hole.

41

Clean the area of the oil pan drainage hole.



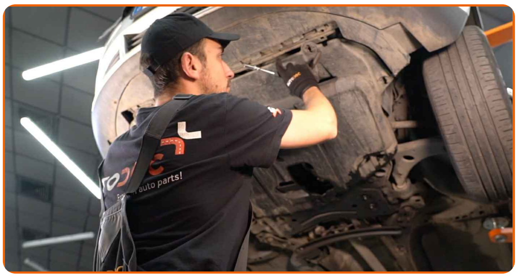
42 Screw in the new drainage plug and tighten it. Use a drive socket #21. Use a torque wrench. Tighten it to 30 Nm torque.



43 Clean the area of the oil pan drainage hole. Use all-purpose cleaning spray.



44 Reinstall the oil pan lower cover.



45 Tighten the fasteners of the oil pan lower cover. Use a drive socket #10. Use a ratchet wrench.



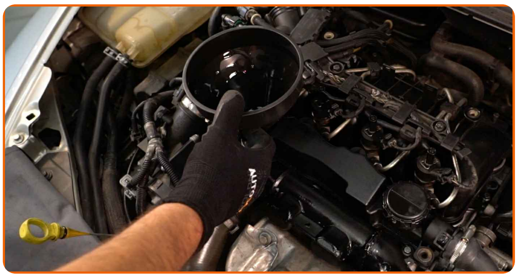
46 Lower the car.



47 Remove the oil filler cap.



48 Insert the funnel.



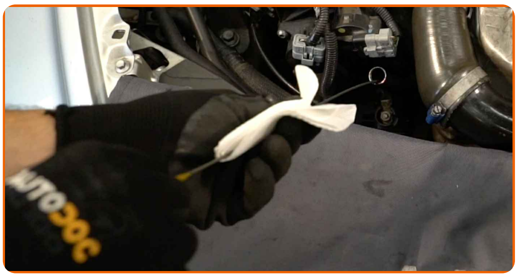
49 Pour oil into the engine through the filler. Required amount of oil: 4.1 L.



Replacement: engine oil and filter – Volvo V50 MW. Tip from AUTODOC:

- Use the oil recommended by the manufacturer.

50 Check the oil level using the dipstick. Top up oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.

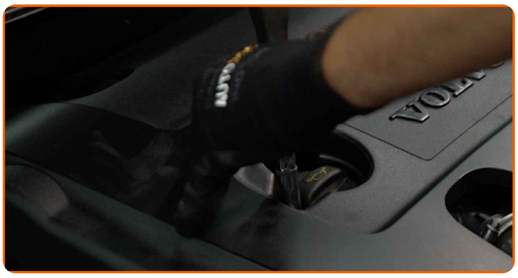
51 Install the engine cover and secure it.



AUTODOC recommends:

- Make sure the engine cover is properly seated. It should not be displaced with respect to the guiding fasteners.
- Caution! Do not use excessive force during installation. This may damage the fasteners of the car. Volvo V50 MW

52 Screw in the engine cover fasteners. Use a drive socket #10.



53 Install the oil filler cap.

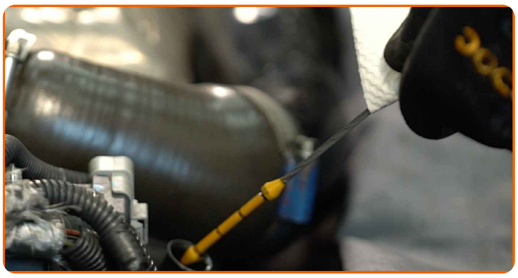
54 Tighten the oil filler cap.



55 Run the engine for a few minutes. After the oil pressure warning light goes out, stop the engine.



56 Check the oil level 5 minutes after the stop of the engine operation using a dipstick and add oil if necessary.



Please note!

- The oil level should be between the Min and Max marks.
- Make sure that the oil filler cap is properly tightened.

57 Check the threaded plug of the drainage hole and the oil filter seal for tightness. If necessary, carefully tighten them up.

58 Remove the fender protection cover.



59 Close the hood.



Replacement: engine oil and filter – Volvo V50 MW. Professionals recommend:

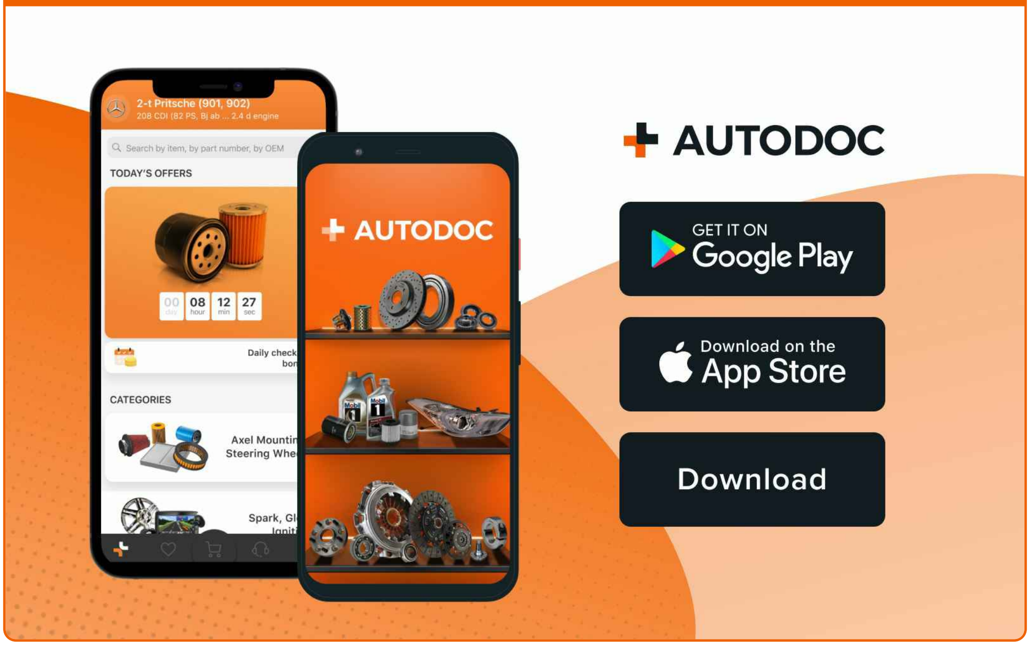
- Note that oil pressure warning light, which indicates insufficient pressure in the lubrication system, may be on for a longer time than usual. After a few seconds, the oil will fill all the channels, and the light will go out.
- To protect the environment from pollution, be sure to dispose of the used filters at special collection points.

WELL DONE!

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